



\*\*FILE\*\*ID\*\*DETACHED

DDDDDDDD	EEEEEEEEE	TTTTTTTTT	AAAAAA	CCCCCCC	HH	HH	EEEEEEEEE	DDDDDDDD
DDDDDDDD	EE	TT	AA	CC	HH	HH	EE	DDDDDDDD
DD	DD	EE	AA	CC	HH	HH	EE	DD
DD	DD	EE	AA	CC	HH	HH	EE	DD
DD	DD	EE	AA	CC	HH	HH	EE	DD
DD	DD	EE	AA	CC	HHHHHHHHHH	HHHHHHHHHH	EEEEE	DD
DD	DD	EE	AA	CC	HHHHHHHHHH	HHHHHHHHHH	EEEEE	DD
DD	DD	EE	TT	AAAAAAA	CC	HH	HH	EE
DD	DD	EE	TT	AAAAAAA	CC	HH	HH	EE
DD	DD	EE	TT	AA	CC	HH	HH	EE
DD	DD	EE	TT	AA	CC	HH	HH	EE
DDDDDDDD	EEEEEEEEE	TT	AA	AA	CCCCCCC	HH	HH	EEEEEEEEE
DDDDDDDD	EEEEEEEEE	TT	AA	AA	CCCCCCC	HH	HH	EEEEEEEEE

....  
....  
....  
....

LL	IIIIII	SSSSSSSS
LL	II	SSSSSSSS
LL	II	SS
LLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLL	IIIIII	SSSSSSSS

```
1 0001 0 MODULE detached (IDENT = 'V04-000',
2 0002 0     ADDRESSING_MODE(INTERNAL = GENERAL)) =
3 0003 1 BEGIN
4 0004 1
5 0005 1
6 0006 1 ****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
9 0009 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
10 0010 1 * ALL RIGHTS RESERVED.
11 0011 1 *
12 0012 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
13 0013 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
14 0014 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
15 0015 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
16 0016 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
17 0017 1 * TRANSFERRED.
18 0018 1 *
19 0019 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
20 0020 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
21 0021 1 * CORPORATION.
22 0022 1 *
23 0023 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
24 0024 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
25 0025 1 *
26 0026 1 *
27 0027 1 ****
28 0028 1
29 0029 1 ++
30 0030 1 FACILITY: Login
31 0031 1
32 0032 1 ABSTRACT:
33 0033 1
34 0034 1     This module handles all processing specific to detached jobs.
35 0035 1
36 0036 1 ENVIRONMENT:
37 0037 1
38 0038 1     VAX/VMS operating system.
39 0039 1
40 0040 1 AUTHOR: Tim Halvorsen, March 1981
41 0041 1
42 0042 1 Modified by:
43 0043 1
44 0044 1     V03-013 MHB0147      Mark Bramhall      7-May-1984
45 0045 1     Guard again no global buffers when opening NETUAF.
46 0046 1
47 0047 1     V03-012 MHB0125      Mark Bramhall      10-Apr-1984
48 0048 1     Set node name, etc. via SET_NODE_NAME.
49 0049 1     Disallow network access to accounts with secondary passwords.
50 0050 1     Fix up network output file name scanning.
51 0051 1
52 0052 1     V03-011 MHB0107      Mark Bramhall      21-Mar-1984
53 0053 1     Use LNM services for logical names.
54 0054 1
55 0055 1     V03-010 PCG0001      Peter George      31-Jan-1984 15:10
56 0056 1     Add secondary password to network processing.
57 0057 1     Correct bug in interpreting batch item list.
```

58 0058 1 |  
59 0059 1 |  
60 0060 1 |  
61 0061 1 |  
62 0062 1 |  
63 0063 1 |  
64 0064 1 |  
65 0065 1 |  
66 0066 1 |  
67 0067 1 |  
68 0068 1 |  
69 0069 1 |  
70 0070 1 |  
71 0071 1 |  
72 0072 1 |  
73 0073 1 |  
74 0074 1 |  
75 0075 1 |  
76 0076 1 |  
77 0077 1 |  
78 0078 1 |  
79 0079 1 |  
80 0080 1 |  
81 0081 1 |  
82 0082 1 |  
83 0083 1 |  
84 0084 1 |  
85 0085 1 |  
86 0086 1 |  
87 0087 1 |  
88 0088 1 |  
89 0089 1 |  
90 0090 1 |  
91 0091 1 |  
92 0092 1 |  
93 0093 1 |  
94 0094 1 |  
95 0095 1 |  
96 0096 1 |  
97 0097 1 |  
98 0098 1 |  
99 0099 1 |  
100 0100 1 |  
101 0101 1 |  
102 0102 1 |  
103 0103 1 |  
104 0104 1 |  
105 0105 1 |  
106 0106 1 |  
107 0107 1 |  
108 0108 1 |  
109 0109 1 |  
110 0110 1 |  
111 0111 1 |  
112 0112 1 |  
113 0113 1 |  
114 0114 1 |

V03-009 ACG0385 Andrew C. Goldstein, 29-Dec-1983 9:59  
Implement job type in JIB; fix coding of field references  
to proxy file record. Change UAF working set fields  
to longwords.

V03-008 ACG0376 Andrew C. Goldstein, 22-Nov-1983 17:16  
Interface cleanup with VALIDATE\_UAFREC; fix error handling  
in GET\_PROXY. Put batch input file name in PPDST\_FILENAME.

V03-007 GAS0183 Gerry Smith 16-Sep-1983  
For network logins, rearrange the code so that the  
node name gets set early on. This helps in both  
accounting and breakin evasion.

V03-006 GAS0164 Gerry Smith 30-Jul-1983  
Change the method of disabling logical name translation  
in RMS calls to use the new ACMODES field.

V03-005 MLJ0115 Martin L. Jack, 29-Jul-1983 10:29  
Update for new log file error handling.

V03-004 GAS0137 Gerry Smith 26-May-1983  
Do not signal a SSNDJBC error when terminating a batch job.

V03-003 GAS0123 Gerry Smith 19-Apr-1983  
Change interface to use SNDJBC for batch jobs. Also,  
if proxy access is requested and the NETUAF cannot be  
accessed, signal with a fatal error.

V03-002 GAS0097 Gerry Smith 4-Jan-1983  
Fix the case of proxy login for wildcard entries.

V03-001 GAS0057 Gerry Smith 17-Mar-1982  
Fix FABS to disable all but system  
logical name translation during open/creates.

V03-010 MLJ34580 Martin L. Jack, 1-Feb-1982 0:55  
Make use of extensions to DJT record to set name and /NOTIFY  
status for log file print job. Correct queue name translation  
so that explicit queue name is not translated and implicit  
SYS\$PRINT uses standard queue-name translation modiroutine.

V03-009 GAS0032 Gerry Smith 07-Jan-1982  
On proxy login, if no UAF record is found, return  
FALSE to indicate lookup failure.

V03-008 GAS0031 Gerry Smith 04-Jan-1982  
Remove NETUAF structure definitions from this module.  
SNAFDEF now resides in LIB.REQ.

V03-007 SPF0050 Steve Forgey 01-Jan-1982  
Store remote node info in P1 space for network jobs.

V03-006 GAS0029 Gerry Smith 31-Dec-1981  
Add proxy login for network jobs.

115 0115 1 | V03-005 HRJ0032 Herb Jacobs 12-Nov-1981  
116 0116 1 | Process batch queue WSEXTENT if passed, validate username  
117 0117 1 | as valid for batch job, and allow handler to stop a batch  
118 0118 1 | job.  
119 0119 1 |  
120 0120 1 | V004 TMH0004 Tim Halvorsen 26-Oct-1981  
121 0121 1 | Get ORIGUIC and OUTFNM from LGI area rather than from PPD.  
122 0122 1 | Add extra acmode argument to calls to exec\_crelog  
123 0123 1 | Make use of global SYSSERROR descriptor, rather than  
124 0124 1 | re-translating the logical name again here.  
125 0125 1 |  
126 0126 1 | V003 GWF0073 Gary Fowler 27-Jul-1981  
127 0127 1 | Change job name to ASCII string. Increase maximum length of  
128 0128 1 | message that can be received from the job controller  
129 0129 1 |  
130 0130 1 | V002 TMH0002 Tim Halvorsen 16-Jul-1981  
131 0131 1 | Reference SHRLIB\$ for shared require files.  
132 0132 1 |  
133 0133 1 | V03-001 GWF0051 Gary W. Fowler 29-May-1981  
134 0134 1 | Add file size in message sent when log file is queued for  
135 0135 1 | printing.  
136 0136 1 | --  
137 0137 1 |  
138 0138 1 |  
139 0139 1 | Include files  
140 0140 1 |  
141 0141 1 |  
142 0142 1 LIBRARY 'SYSSLIBRARY:LIB'; | VAX/VMS system definitions  
143 0143 1 REQUIRE 'SHRLIBS:UTILDEF'; | Common BLISS definitions  
144 0328 1 |  
145 0329 1 REQUIRE 'LIBS:PPDDEF'; | Process permanent data region  
146 0476 1 REQUIRE 'LIBS:LGIDEF'; | LOGINOUT private permanent storage

148	0547	1	Table of contents	
149	0548	1		
150	0549	1		
151	0550	1		
152	0551	1	FORWARD ROUTINE	
153	0552	1	init_batch:	NOVALUE, Initialize batch job step
154	0553	1	stop_batch_job:	NOVALUE, Stop batch job stream
155	0554	1	terminate_batch:	NOVALUE, Stop a batch job
156	0555	1	init_network:	NOVALUE, Initialize network job
157	0556	1	get_proxy:	NOVALUE, Get proxy username
158	0557	1		
159	0558	1		
160	0559	1	External routines	
161	0560	1		
162	0561	1		
163	0562	1	EXTERNAL ROUTINE	
164	0563	1	close_output:	NOVALUE, Close primary output file
165	0564	1	validate_uafrec:	NOVALUE, Read/validate UAF record
166	0565	1	get_uafrec:	NOVALUE, Read UAF record without validation
167	0566	1	logout_message:	NOVALUE, Write logout message
168	0567	1	map_imgact:	NOVALUE, Map image activator code segment
169	0568	1	create_logical:	NOVALUE, Create logical name with LNM services
170	0569	1	set_sysprv:	NOVALUE, Turn on SYSPRV
171	0570	1	clear_sysprv:	NOVALUE, Turn off SYSPRV
172	0571	1	set_uic:	NOVALUE, Set process UIC
173	0572	1	set_node_name:	NOVALUE, Set remote node info in P1 space
174	0573	1	exit_process:	NOVALUE, Exit the process
175	0574	1	lib\$fid_to_name:	NOVALUE, Translate file ID to file name
176	0575	1		
177	0576	1		
178	0577	1	Define literals	
179	0578	1		
180	0579	1		
181	0580	1		
182	0581	1		
183	0582	1	Define message codes	
184	0583	1		
185	0584	1		
186	0585	1	EXTERNAL LITERAL	
187	0586	1	lgis_jbcmixup,	
188	0587	1	lgis_userauth,	
189	0588	1	lgis_netuafacc;	
190	0589	1		
191	0590	1		
192	0591	1	External storage	
193	0592	1		
194	0593	1		
195	0594	1	EXTERNAL	
196	0595	1	pcb_sts:	BITVECTOR, PCB status flags
197	0596	1	job_type:	Job type code for JIB
198	0597	1	input_fab:	BBLOCK, Input FAB
199	0598	1	input_nam:	BBLOCK, Input NAM
200	0599	1	output_fab:	BBLOCK, Output FAB
201	0600	1	output_nam:	BBLOCK, Output NAM
202	0601	1	uaf_record:	REF BBLOCK, Address of UAF record
203	0602	1	sys\$input:	VECTOR, Translation of SYSS\$INPUT
204	0603	1	sys\$output:	VECTOR, Translation of SYSS\$OUTPUT

DETACHED  
V04-000

J 11  
16-Sep-1984 01:59:01 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 12:41:05 [LOGIN.SRC]DETACHED.B32;1

Page 5  
(2)

```
: 205      0604 1    sys$error:           VECTOR,      ! Translation of SYS$ERROR
: 206      0605 1    ctl$ag_clidata;       ! Process permanent data storage
: 207      0606 1
: 208      0607 1    BIND
: 209      0608 1    ppd = ctl$ag_clidata: BBLOCK;   ! Address of PPD structure
: 210      0609 1
: 211      0610 1
```

```
: 213      0611 1 GLOBAL ROUTINE init_batch: NOVALUE =
: 214      0612 1
: 215      0613 1 ---  
: 216      0614 1 | Perform batch initialization by requesting the job parameters
: 217      0615 1 | from the job controller.  
: 218      0616 1 |
: 219      0617 1 Inputs:  
: 220      0618 1 |
: 221      0619 1 | None  
: 222      0620 1 |
: 223      0621 1 Outputs:  
: 224      0622 1 |
: 225      0623 1 | uaf_record = Address of UAF record for user
: 226      0624 1 |
: 227      0625 1 ---  
: 228      0626 1 BEGIN
: 229      0627 2
: 230      0628 2 OWN
: 231      0629 2
: 232      0630 2 jobname: VECTOR [43,BYTE], ! Must be static to be passed back
: 233      0631 2 logfile: VECTOR [nam$c_maxrss,BYTE]; ! to caller as output filespec
: 234      0632 2
: 235      0633 2 LOCAL
: 236      0634 2   username : VECTOR[2] ! Descriptor for username
: 237      0635 2           INITIAL(REP 2 OF (0)),
: 238      0636 2   logdesc: VECTOR [2], ! Logical name descriptor
: 239      0637 2   logname: VECTOR [2,BYTE], ! 2 character logical name
: 240      0638 2   ptr : REF VECTOR[,WORD],
: 241      0639 2   length,
: 242      0640 2   buffer : VECTOR[500], ! SNDJBC message buffer
: 243      0641 2   flags : REF SBBLOCK INITIAL (0); ! Flags from job controller
: 244      0642 2
: 245      0643 2
: 246      0644 2 | Check to see if at early termination of batch job.
: 247      0645 2
: 248      0646 2 IF .ppd [ppd$w_outifi] NEQ 0 ! If not first job step,
: 249      0647 2 AND NOT .ppd [ppd$\$l_lststatus] ! and job step failed,
: 250      0648 3 AND ((.ppd [ppd$\$l_lststatus] AND 6) NEQ 0) ! and its an error or fatal,
: 251      0649 2 THEN
: 252      0650 2   terminate_batch(0); ! Stop the batch job
: 253      0651 2
: 254      0652 2
: 255      0653 2 | Request detached job step initialization parameters from job controller
: 256      0654 2
: 257      0655 3 BEGIN
: 258      0656 3 LOCAL
: 259      0657 3   status,
: 260      0658 3   iosb : VECTOR[2],
: 261      0659 3   itmlst : $ITMLST_DECL(ITEMS = 1);
: 262      0660 3
: P 0661 3 $ITMLST_INIT(ITMLST = itmlst,
: P 0662 3           (ITMCOD = sjc$batch_output,
: P 0663 3           BUFSIZ = %ALLOCATION(buffer),
: P 0664 3           BUFADR = buffer));
: P 0665 3 status = $SNDJBCW(FUNC = sjc$batch_service,
: P 0666 3           ITMLST = itmlst,
: P 0667 3           IOSB = iosb);
```

```
: 270      0668 3 IF .status
: 271      0669 3 THEN status = .iosb[0];
: 272      0670 3 IF NOT .status
: 273      0671 3 THEN SIGNAL_STOP(.status);
: 274      0672 2 END;
: 275      0673 2
: 276      0674 2 | Find the flags longword and the username.
: 277      0675 2
: 278      0676 2 ptr = buffer;
: 279      0677 2 WHILE true DO
: 280      0678 2 BEGIN
: 281      0679 3 IF .ptr[1] EQL 0
: 282      0680 3 THEN EXITLOOP;
: 283      0681 3 IF .ptr[1] EQL dji$k_flags
: 284      0682 3 THEN
: 285      0683 3 BEGIN
: 286      0684 4   flags = ptr[2];
: 287      0685 4   IF .flags[dji$v_terminate]
: 288      0686 4     THEN stop_batch_job(.flags, buffer, 0);
: 289      0687 4   IF .flags[dji$v_delete_file]
: 290      0688 4     THEN input_fab[tab$v_d[t]] = true;
: 291      0689 4   IF .flags[dji$v_restarting]
: 292      0690 4     THEN ppd[ppd$v_restart] = true;
: 293      0691 4   IF .username[1] NEQ 0
: 294      0692 4     OR ppd[ppd$w_outifi] NEQ 0
: 295      0693 4     THEN EXITLOOP;
: 296      0694 4   END
: 297      0695 4 ELSE IF .ptr[1] EQL dji$k_username
: 298      0696 3 THEN
: 299      0697 3 BEGIN
: 300      0698 4   username[1] = ptr[2];
: 301      0699 4   IF .flags NEQ 0
: 302      0700 4     THEN EXITLOOP;
: 303      0701 4   END;
: 304      0702 3   ptr = ptr[2] + .ptr[0];
: 305      0703 3
: 306      0704 2
: 307      0705 2
: 308      0706 2 | If this is the first job step, then do first_time_thru stuff.
: 309      0707 2
: 310      0708 2
: 311      0709 2 IF .ppd [ppd$w_outifi] EQL 0           ! If this the first job step,
: 312      0710 2 THEN
: 313      0711 3 BEGIN
: 314      0712 3   job_type = jib$e_batch;
: 315      0713 3   !***username [0] = uaf$e_username;    ! Setup descriptor of user name
: 316      0714 3   username [0] = 12;                  ! Setup descriptor of user name
: 317      0715 3   get_uarec(username);            ! Get user's UAF record
: 318      0716 3   IF .uaf_record EQL 0
: 319      0717 3   THEN
: 320      0718 3     SIGNAL_STOP(lgi$ユーザauth); ! signal fatal error
: 321      0719 2
: 322      0720 2
: 323      0721 2
: 324      0722 2 | Now to go thru all the data items in BUFFER, setting up the input and
: 325      0723 2 output files as indicated, as well as working set parameters and cpu
: 326      0724 2 time limit, if first job step.
```

```
327      0725 2 !  
328      0726 2 logdesc[0] = 2;          ! Set up the logical name descriptor  
329      0727 2 logdesc[1] = logname;  
330      0728 2 logname[0] = 'P';  
331      0729 2  
332      0730 2 output_fab[fab$b_fn] = 0;    ! Initialize the file name  
333      0731 2 ptr = Buffer;  
334      0732 2 WHILE true DO  
335      0733 3 BEGIN  
336      0734 3 CASE .ptr[1] FROM 0 TO dji$k_wsquota OF  
337      0735 3     SET  
338      0736 3     [0] : EXITLOOP;  
339      0737 3  
340      0738 3 [dji$k_wsdefault] :  
341      0739 3     IF .ppd[ppd$w_outifi] EQL 0      ! If first job step, set wsdefault  
342      0740 3     THEN  
343      0741 4       BEGIN  
344      0742 4         IF .flags[dji$v_use_wsdefault]  
345      0743 5           THEN uaf_record[uaf$l_dfwscnt] = .(ptr[2])  
346      0744 4           ELSE uaf_record[uaf$l_dfwscnt] = MINU(.(ptr[2]),  
347      0745 4                           .uaf_record[uaf$l_dfwscnt]);  
348      0746 3       END;  
349      0747 3  
350      0748 3 [dji$k_wsextent] :  
351      0749 3     IF .ppd[ppd$w_outifi] EQL 0      ! If first job step, set wsextent  
352      0750 3     THEN  
353      0751 4       BEGIN  
354      0752 4         IF .flags[dji$v_use_wsextent]  
355      0753 5           THEN uaf_record[uaf$l_wsextent] = .(ptr[2])  
356      0754 4           ELSE uaf_record[uaf$l_wsextent] = MINU(.(ptr[2]),  
357      0755 4                           .uaf_record[uaf$l_wsextent]);  
358      0756 3       END;  
359      0757 3  
360      0758 3 [dji$k_wsquota] :  
361      0759 3     IF .ppd[ppd$w_outifi] EQL 0      ! If first job step, set wsquota  
362      0760 3     THEN  
363      0761 4       BEGIN  
364      0762 4         IF .flags[dji$v_use_wsquota]  
365      0763 5           THEN uaf_record[uaf$l_wsquota] = .(ptr[2])  
366      0764 4           ELSE uaf_record[uaf$l_wsquota] = MINU(.(ptr[2]),  
367      0765 4                           .uaf_record[uaf$l_wsquota]);  
368      0766 3       END;  
369      0767 3  
370      0768 3 [dji$k_cpu_maximum] :  
371      0769 3     IF .ppd[ppd$w_outifi] EQL 0      ! If first job step, set CPU time limit  
372      0770 3     THEN  
373      0771 4       BEGIN  
374      0772 4         IF .flags[dji$v_use_cpu_maximum]  
375      0773 5           THEN uaf_record[uaf$l_cputim] = .(ptr[2])  
376      0774 4           ELSE uaf_record[uaf$l_cputim] = MINU(.(ptr[2])-1,  
377      0775 4                           .uaf_record[uaf$l_cputim]-1) + 1; ! So that 0 > all others  
378      0776 3       END;  
379      0777 3  
380      0778 3 [dji$k_job_name] :  
381      0779 4       BEGIN  
382      0780 4         length = .ptr[0];          ! Setup output log file name from job name  
383      0781 4         CHSMOVE(.length,
```

```
384      0782 4          ptr[2],  
385      0783 4          jobname);  
386      0784 4          CHSMOVE(4, UPLIT BYTE('.LOG'), jobname + .length);  
387      0785 4          output_fab [fab$1_dna] = jobname; ! Set default to <jobname>.LOG  
388      0786 4          output_fab [fab$b_dns] = .length + 4;  
389      0787 3          END;  
390      0788 3  
391      0789 3          [dji$k_log_specification] :  
392      0790 4          BEGIN  
393      0791 4          ! Set up the log file name  
394      0792 4          output_fab [fab$b_fns] = .ptr[0];  
395      0793 4          output_fab [fab$1_fna] = logfile;  
396      0794 4          CHSMOVE(.ptr[0],  
397      0795 4          ptr[2],  
398      0796 3          logfile);  
399      0797 3          END;  
400      0798 3          [dji$k_file_identification] : ! Batch input file  
401      0799 4          BEGIN  
402      0800 4          LOCAL  
403      0801 4          name_desc : VECTOR [2],  
404      0802 4          dvi_desc : VECTOR [2],  
405      0803 4          name_length : WORD;  
406      0804 4          CHSMOVE(ppd$C_dvifid,  
407      0805 4          ptr[2],  
408      0806 4          input nam[nam$t_dvi]);  
409      0807 4          input_fab [fab$V_nam] = true; ! Mark to open input by NAM block  
410      0808 4          ! Get input file name for CLI  
411      0809 4          name_desc[0] = ppd$S_filename-1;  
412      0810 4          name_desc[1] = ppd[ppd$T_filename]+1;  
413      0811 4          dvi_desc[0] = VECTOR [input nam[nam$t_dvi], 0; ,BYTE];  
414      0812 4          dvi_desc[1] = input nam[nam$t_dvi]+1;  
415      0813 4          IF [ib$fid_to_name (dvi_desc, input_nam[nam$W_fid],  
416                           name_desc, name_length)  
417      0814 4          THEN VECTOR [ppd[ppd$T_filename], 0; ,BYTE] = .name_length;  
418      0815 4          END;  
419      0816 3  
420      0817 3  
421      0818 3          [dji$k_parameter_1 TO dji$k_parameter_8] :  
422      0819 4          BEGIN  
423      0820 4          LOCAL  
424      0821 4          desc: VECTOR[2];  
425      0822 4          desc[0] = .ptr[0];  
426      0823 4          desc[1] = ptr[2];  
427      0824 4          logname [1] = '1' + .ptr[1] - dji$k_parameter_1;  
428      0825 4          create_logical(logdesc, ! Create Pn logical name  
429                           desc,  
430                           psl$c_user);  
431      0826 3          END;  
432      0827 3  
433      0828 3  
434      0829 3  
435      0830 3          [dji$k_restart] :  
436      0831 4          BEGIN  
437      0832 4          LOCAL  
438      0833 4          desc : VECTOR[2];  
439      0834 4          desc[0] = .ptr[0];  
440      0835 4          desc[1] = ptr[2];  
441      0836 4          create_logical(%ASCID 'BATCH$RESTART',  
442                           desc,  
443                           psl$c_user);
```

```
: 441      0839 3      END;  
: 442      0840 3  
: 443      0841 3      [INRANGE] : true;  
: 444      0842 3      [OUTRANGE] : true;  
: 445      0843 3      TES;  
: 446      0844 3      ptr = ptr[2] + .ptr[0];  
: 447      0845 2      END;  
: 448      0846 2  
: 449      0847 2      IF .flags[dji$v_log_null]  
: 450      0848 2      THEN  
: 451      0849 3      BEGIN  
: 452      0850 3      output_fab [fab$b_fns] = 4;  
: 453      0851 3      output_fab [fab$l_fna] = UPLIT BYTE('_NL:');  
: 454      0852 2      END;  
: 455      0853 2  
: 456      0854 2  
: 457      0855 1      END;
```

```
.TITLE DETACHED  
.IDENT \V04-000\  
.PSECT $PLIT$,NOWRT,NOEXE,2  
  
00 00 54 52 41 54 53 45 52 24 48 47 4F 4C 2E 00000 P.AAA: .ASCII \.LOG\  
00 00 0000D 00004 P.AAC: .ASCII \BATCH$RESTART\<0><0><0>  
010E000D 00014 P.AAB: .LONG 17694733  
00000000 00018 P.AAC: .ADDRESS P.AAC  
3A 4C 4E 5F 0001C P.AAD: .ASCII \_NL:\  
  
.PSECT $OWNS,NOEXE,2  
  
00000 JOBNAME:.BLKB 43  
0002B .BLKB 1  
0002C LOGFILE:.BLKB 255  
  
.EXTRN CLOSE_OUTPUT, VALIDATE_UAFREC  
.EXTRN GET_UAFREC, LOGOUT_MESSAGE  
.EXTRN MAP_IMGACT, CREATE_LOGICAL  
.EXTRN SET_SYSPRV, CLEAR_SYSPRV  
.EXTRN SET_UIC, SET_NODE_NAME  
.EXTRN EXIT_PROCESS, LIB$FID TO NAME  
.EXTRN LGIS$JBCMIXUP, LGIS$USERAUTH  
.EXTRN LGIS$NETUAFACC, PCB$STS  
.EXTRN JOB_TYPE, INPUT_FAB  
.EXTRN INPUT_NAM, OUTPUT_FAB  
.EXTRN OUTPUT_NAM, UAF_RECORD  
.EXTRN SYS$INPUT, SYS$OUTPUT  
.EXTRN SYS$ERROR, CTL$AG_CLIDATA  
.EXTRN SYS$NDJB$W  
  
.PSECT $CODE$,NOWRT,2  
  
OFFC 00000 .ENTRY INIT_BATCH, Save R2,R3,R4,R5,R6,R7,R8,R9,- ; 0611  
5B 0000000G 00 9E 00002 MOVAB R10,R11  
                      UAF_RECORD, R11
```

5A	00000000G	00	9E	00009	MOVAB	OUTPUT_FAB+52, R10		
59	00000000G	00	9E	00010	MOVAB	PPD+36-, R9		
5E	F800	CE	9E	00017	MOVAB	-2048(SP), SP		
	F8	AD	7C	0001C	CLRQ	USERNAME	0627	
		57	D4	0001F	CLRL	FLAGS	0646	
		69	B5	00021	TSTW	PPD+36		
		11	13	00023	BEQL	1\$		
0D	F4	A9	E8	00025	BLBS	PPD+24, 1\$	0647	
06	F4	A9	93	00029	BITB	PPD+24, #6	0648	
		07	13	0002D	BEQL	1\$		
		7E	D4	0002F	CLRL	-(SP)	0650	
0000V	CF	01	FB	00031	CALLS	#1, TERMINATE_BATCH		
50	08	AE	9E	00036	1\$:	ITMLST, \$SITMBLKPTR		
80	000B07D0	8F	DO	0003A	MOVL	#722896, (\$SITMBLKPTR)+	0664	
80	20	AE	9E	00041	MOVAB	BUFFER, (\$SITMBLKPTR)+		
		80	7C	00045	CLRQ	(\$SITMBLKPTR)+		
		7E	7C	00047	CLRL	-(SP)	0667	
		20	AE	9F	PUSHAB	IOSB		
		14	AE	9F	00049	ITMLST		
	7E	07	7D	0004F	MOVQ	#7, -(SP)		
00000000G	00	07	FB	00054	CLRL	-(SP)		
07		50	E9	0005B	CALLS	#7, SYSSNDJBCW	0668	
50	18	AE	DO	0005E	BLBC	STATUS, 2\$	0669	
09		50	E8	00062	MOVL	IOSB, STATUS	0670	
00000000G	00	50	DD	00065	2\$:	BLBS	STATUS, 3\$	0671
56	20	AE	9E	00067	PUSHL	STATUS		
50	02	A6	3C	00072	CALLS	#1, LIB\$STOP	0677	
		4D	13	00076	MOVAB	BUFFER, PTR	0680	
03		50	B1	00078	MOVZWL	2(PTR), R0	0682	
		30	12	0007B	BEQL	11\$		
57	04	A6	9E	0007D	CMPW	R0, #3	0685	
67		06	E1	00081	BNEQ	8\$	0686	
		7E	D4	00085	MOVAB	4(R6), FLAGS	0687	
		24	AE	9F	00087	BBC	#6, (FLAGS), 5\$	
		57	DD	0008A	CLRL	-(SP)		
0000V	CF	03	FB	0008C	PUSHAB	BUFFER		
08		67	E9	00091	PUSHL	FLAGS		
00000000G	00	80	8F	00094	CALLS	#3, STOP_BATCH_JOB	0688	
67		05	E1	0009C	BLBC	(FLAGS), 6\$	0689	
DE	A9	10	88	000A0	6\$:	#128, INPUT_FAB+5		
		FC	AD	D5	000A4	BISB2	#5, (FLAGS), 7\$	0690
		1C	12	000A7	7\$:	#16, PPD+2	0691	
		69	B5	000A9	TSTL	USERNAME+4	0692	
		0C	11	000AB	BNEQ	11\$		
10		50	B1	000AD	BRB	PPD+36	0693	
		09	12	000B0	CMPW	9\$		
FC	AD	04	A6	9E	BNEQ	RO, #16	0696	
		57	D5	000B2	MOVAB	10\$		
		0A	12	000B7	TSTL	4(R6), USERNAME+4	0699	
50		0A	12	000B9	BNEQ	FLAGS	0700	
56	04 A046	66	3C	000BB	9\$:	11\$		
		AD	11	000BE	MOVZWL	(PTR), R0	0703	
		69	B5	000C3	AD	4(R0)[PTR], PTR		
		26	12	000C5	11\$:	4\$		
00000000G	00	02	DO	000C9	TSTW	PPD+36	0709	
					BNEQ	12\$		
					MOVL	#2, JOB_TYPE	0712	

DETACHED  
V04-000D 12  
16-Sep-1984 01:59:01 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 12:41:05 [LOGIN.SRC]DETACHED.B32;1Page 12  
(3)

	F8 AD	F8	OC D0 000D0	MOVL	#12, USERNAME	0714
	00000000G 00		AD 9F 000D4	PUSHAB	USERNAME	0715
			01 FB 000D7	CALLS	#1, GET_UAFREC	0716
			6B D5 000DE	TSTL	UAF_RECORD	
			0D 12 000E0	BNEQ	12\$	
			8F DD 000E2	PUSHL	#LGIS_USERAUTH	0718
			01 FB 000E8	CALLS	#1, LIB\$STOP	
	00000000G 00		02 D0 000EF 12\$:	MOVL	#2, LOGDESC	0726
	F0 AD		AE 9E 000F3	MOVAB	LOGNAME, LOGDESC+4	0727
	F4 AD	04	50 8F 90 000F8	MOVB	#80, LOGNAME	0728
	04 AE		6A 94 000FD	CLRB	OUTPUT_FAB+52	0730
			AE 9E 000FF	MOVAB	BUFFER, PTR	0731
			A6 AF 00103 13\$:	CASEW	2(PTR), #0, #19	0734
	13 00		0163 00108 14\$:	.WORD	37\$-14\$,-	
0158	00DE	007E	00AB 00110		23\$-14\$,-	
0126	00CC	0158	0126 00118		31\$-14\$,-	
0126	0126	0126	0126 00120		36\$-14\$,-	
013F	0126	0126	0158 00128		27\$-14\$,-	
0057	0045	002A			36\$-14\$,-	
					29\$-14\$,-	
					33\$-14\$,-	
					33\$-14\$,-	
					33\$-14\$,-	
					33\$-14\$,-	
					33\$-14\$,-	
					33\$-14\$,-	
					33\$-14\$,-	
					34\$-14\$,-	
					36\$-14\$,-	
					15\$-14\$,-	
					17\$-14\$,-	
					18\$-14\$,	
			7F 11 00130	BRB	26\$	
			69 B5 00132 15\$:	TSTW	PPD+36	0739
			7B 12 00134	BNEQ	26\$	
	50		6B D0 00136	MOVL	UAF_RECORD, R0	0743
	51	0220	C0 9E 00139	MOVAB	544(TR0), R1	
	2D	01	A7 E8 0013E	BLBS	1(FLAGS), 19\$	0742
	50	04	A6 D0 00142 16\$:	MOVL	4(PTR), R0	0745
	61		50 D1 00146	CMPL	R0, (R1)	
			33 1A 00149	BGTRU	21\$	
			34 11 0014B	BRB	22\$	0744
			69 B5 0014D 17\$:	TSTW	PPD+36	0749
			60 12 0014F	BNEQ	26\$	
	50		6B D0 00151	MOVL	UAF_RECORD, R0	0753
	51	0224	C0 9E 00154	MOVAB	548(TR0), R1	
	12	67	09 E0 00159	BBS	#9, (FLAGS), 19\$	0752
			E3 11 0015D	BRB	16\$	0755
			69 B5 0015F 18\$:	TSTW	PPD+36	0759
			6F 12 00161	BNEQ	28\$	
	50		6B D0 00163	MOVL	UAF_RECORD, R0	0763
	51	021C	C0 9E 00166	MOVAB	540(TR0), R1	
	67		0A E1 0016B	BBC	#10, (FLAGS), 20\$	0762
	61	04	A6 D0 0016F 19\$:	MOVL	4(PTR), (R1)	0763
	50	04	6F 11 00173	BRB	30\$	
			A6 D0 00175 20\$:	MOVL	4(PTR), R0	0765

		61	50	D1 00179	CMPL	R0 (R1)	
		50	03	1B 0017C	BLEQU	22\$	
		61	61	DO 0017E	21\$:	MOVL (R1), R0	0764
		50	50	DO 00181	22\$:	MOVL R0 (R1)	0759
		5E	5E	11 00184	BRB	30\$	0769
		69	69	B5 00186	23\$:	TSTW PPD+36	0773
		5A	5A	12 00188	BNEQ	30\$	
		50	6B	DO 0018A	MOVL	UAF RECORD, R0	0772
		50	C0	9E 0018D	MOVAB	556(R0), R6	0773
		50	67	95 00192	TSTB	(FLAGS)	
		60	06	18 00194	BGEQ	24\$	0772
		60	A6	DO 00196	MOVL	4(PTR), (R0)	0773
		52	48	11 0019A	BRB	30\$	
	51	04	A6	01 C3 0019C	24\$:	SUBL3 #1, 4(PTR), R2	0774
	51	60	01	C3 001A1	SUBL3	#1, (R0), R1	0775
	51	51	52	D1 001A5	CMPL	R2 R1	
		52	03	1B 001A8	BLEQU	25\$	
		52	51	DO 001AA	MOVL	R1, R2	
		60	60	A2 9E 001AD	25\$:	MOVAB 1(R2), (R0)	0769
			79	11 001B1	BRB	32\$	
	0000' CF	04	58	66 3C 001B3	27\$:	MOVZWL (PTR), LENGTH	0780
			58	58 28 001B6	MOVC3	LENGTH, 4(PTR), JOBNAME	0782
			9E	0000' CF 48	PUSHAB	JOBNAME[LENGTH]	0784
			AA	0000' CF	DO 001C2	MOVL P.AAA, @(SP)+	
	01 AA	FC	AA	0000' CF	9E 001C7	MOVAB JOBNAME, OUTPUT_FAB+48	0785
		58	04	81 001CD	ADDB3 #4 LENGTH, OUTPUT_FAB+53		0786
			58	11 001D2	BRB	32\$	0734
			6A	66 90 001D4	28\$:	MOVB (PTR), OUTPUT_FAB+52	0791
	0000' CF	F8	AA	0000' CF	9E 001D7	MOVAB LOGFILE, OUTPUT_FAB+44	0792
		04	A6	66 28 001DD	MOVC3 (PTR), 4(PTR), LOGFILE		0794
				7A 11 001E4	BRB	36\$	0734
	00000000G 00	04	A6	1C 28 001E6	30\$:	MOVC3 #28, 4(PTR), INPUT_NAM+20	0806
			00	01 88 001EF	BISB2	#1 INPUT_FAB+7	0807
			18	AE FF	8F 9A 001F6	MOVZBL #255 NAME DESC	0809
			1C	AE 45	A9 9E 001FB	MOVAL PPD+105, NAME_DESC+4	0810
			10	AE 00000000G	00 9A 00200	MOVZBL INPUT_NAM+20, DVI_DESC	0811
			14	AE 00000000G	00 9E 00208	MOVAL INPUT_NAM+21, DVI_DESC+4	0812
				5E DD 00210	PUSHL SP		0813
				1C AE 9F 00212	PUSHAB NAME DESC		
				00000000G 00	9F 00215	PUSHAB INPUT_NAM+36	
				1C AE 9F 0021B	PUSHAB DVI_DESC		
				00000000G 00	04 FB 0021E	CALLS #4, LIB\$FID_TO_NAME	
				38 50 E9 00225	BLBC R0, 36\$		
			44 A9	6E 90 00228	MOVB NAME_LENGTH, PPD+104	0815	
			44 A9	32 11 0022C	32\$:	BRB 36\$	0734
			18 AE	66 3C 0022E	33\$:	MOVZWL (PTR), DESC	0822
			1C AE	66 A6 00232	MOVAL 4(R6), DESC+4		0823
	05 AE	02	A6	2A 81 00237	ADDB3 #42, 2(PTR), LOGNAME+1		0824
				03 DD 0023D	PUSHL #3		0825
				1C AE 9F 0023F	PUSHAB DESC		
				F0 AD 9F 00242	PUSHAB LOGDESC		
				12 11 00245	BRB 35\$		
			18 AE	66 3C 00247	34\$:	MOVZWL (PTR), DESC	0834
			1C AE	04 A6 9E 0024B	MOVAL 4(R6), DESC+4		0835
				03 DD 00250	PUSHL #3		0836
				1C AE 9F 00252	PUSHAB DESC		
				0000' CF 9F 00255	PUSHAB P.AAB		

DETACHED  
V04-000

F 12  
16-Sep-1984 01:59:01 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 12:41:05 [LOGIN.SRC]DETACHED.B32;1

Page 14  
(3)

00000000G	00	03	FB 00259	35\$: CALLS #3, CREATE_LOGICAL		
	50	66	3C 00260	36\$: MOVZWL (PTR) R0	: 0844	
	56	04	A046 9E 00263	MOVAB 4(R0)[PTR], PTR		
09			FE98 31 00268	BRW 13\$	: 0732	
		67	02	E1 00268	BBC #2, (FLAGS), 38\$	: 0847
		6A	04	90 0026F	MOVAB #4, OUTPUT_FAB+52	: 0850
		F8 AA	0000' CF	9E 00272	MOVAB P.AAD, OUTPUT_FAB+44	: 0851
			04 00278	38\$: RET	: 0855	

; Routine Size: 633 bytes, Routine Base: \$CODE\$ + 0000

```
: 459      0856 1 GLOBAL ROUTINE terminate_batch(signal_args : REF $BBLOCK): NOVALUE =
: 460      0857 1
: 461      0858 1 --- Request a job controller termination message, then stop batch job.
: 462      0859 1
: 463      0860 1
: 464      0861 1
: 465      0862 1 Inputs:
: 466      0863 1   Signal arguments or 0.
: 467      0864 1
: 468      0865 1 Outputs:
: 469      0866 1
: 470      0867 1   Job termination, no return, exit via exit process
: 471      0868 1 --- BEGIN
: 472      0869 1
: 473      0870 2 BEGIN
: 474      0871 2
: 475      0872 2 LOCAL
: 476      0873 2   status,                                ! Status return from SNDJBC
: 477      0874 2   input_buffer:    $BBLOCK[50],        ! SNDJBC input buffer
: 478      0875 2   buffer:          $BBLOCK[500],       ! SNDJBC output buffer
: 479      0876 2   p : REF $BBLOCK,                  Cursor for input buffer
: 480      0877 2   ptr : REF VECTOR[,WORD],           Pointer to buffer contents
: 481      0878 2   iosb : VECTOR[2],                 Final status from SNDJBC
: 482      0879 2   itmlst : $ITMLST_DECL(ITEMS = 2); ! SNDJBC item list
: 483
: 484
: 485
: 486      0882 2 | Initialize SNDJBC input buffer.
: 487      0883 2
: 488      0884 2 p = input_buffer;
: 489      0885 2
: 490      0887 2 p[dji$w_item_code] = dji$k_input_flags; ! Inhibit return of a file
: 491      0888 2 p[dji$w_item_size] = 4;
: 492      0889 2 p = .p + dji$s_item_header;
: 493      0890 2 .p = dji$m_no_file;
: 494      0891 2 p = .p + 4;
: 495
: 496      0893 2 IF .signal_args NEQA 0               ! If signal arguments present
: 497      0894 2 THEN
: 498      0895 3   BEGIN
: 499      0896 3   LOCAL
: 500      0897 3     i:             REF $BBLOCK;    ! Pointer to item header
: 501      0898 3
: 502      0899 3     i = .p;
: 503      0900 3     p[dji$w_item_code] = dji$k_condition_vector;
: 504      0901 3     p[dji$w_item_size] = 4;
: 505      0902 3     p = .p + dji$s_item_header;
: 506      0903 3     .p = .signal_args[4,0,32,0];      ! Primary condition
: 507      0904 3     p = .p + 4;
: 508      0905 3     IF .signal_args[0,0,8,0] GEQU 3
: 509      0906 3     THEN
: 510      0907 4       BEGIN
: 511      0908 4         i[dji$w_item_size] = 8;
: 512      0909 4         .p = .signal_args[12,0,32,0]; ! STS, if present
: 513      0910 4         p = .p + 4;
: 514      0911 3         END;
: 515      0912 3     IF .signal_args[0,0,8,0] GEQU 4
```

```

516      0913 3   THEN
517      0914 4   BEGIN
518      0915 4   i[dji$w_item_size] = 12;
519      0916 4   .p = .signal_args[16,0,32,0]; ! STV, if present
520      0917 4   p = .p + 4;
521      0918 3   END;
522      0919 2   .p = 0;                                ! Zero terminate list
523
524
525
526
527      0923 2   ! Request parameters from job controller.
528      0925 2   !
529      P 0926 2 $ITMLST_INIT(ITMLST = itmlst,
530      P 0927 2   (ITMCOD = sjc$ batch input,
531      P 0928 2   BUFSIZ = %ALLOCATION(input_buffer),
532      P 0929 2   BUFADR = input buffer),
533      P 0930 2   (ITMCOD = sjc$ batch output,
534      P 0931 2   BUFSIZ = %ALLOCATION(buffer),
535      P 0932 2   BUFADR = buffer));
536      P 0933 2 status = $SNDJBCW(FUNC = sjc$ batch_service,
537      P 0934 2   ITMLST = itmlst,
538      P 0935 2   IOSB = iosb);
539      0936 2 IF .status
540      0937 2 THEN status = .iosb[0];
541      0938 2 IF NOT .status
542      0939 2 THEN stop_batch_job(UPLIT(0), 0, .signal_args);
543
544
545      0942 2 ! Look for the flags word. Once that is found, we can call the routine
546      0943 2 to actually stop this job.
547
548      0945 2 ptr = buffer;
549      0946 2 WHILE .(ptr[0]) NEQ 0 DO
550
551      0947 3   BEGIN
552      0948 3   IF .ptr[1] EQL dji$k_flags
553      0949 3   THEN stop_batch_job(ptr[2], buffer, .signal_args);
554      0950 3   ptr = ptr[2] + .ptr[0];
555
556      0951 2   END;
557
558      0953 2
559      0954 1 END;

```

.PSECT SPLIT\$,NOWRT,NOEXE,2  
00000000 00020 P.AAE: .LONG 0

.PSECT SCODE\$,NOWRT,2  

5E	FDB4	CE 000C 00000	.ENTRY TERMINATE_BATCH, Save R2,R3	: 0856
50	CC	AD 9E 00002	MOVAB -588(SP), SP	: 0885
80	80010004	8F D0 0000B	MOVAB INPUT BUFFER, P	: 0888
			MOVL #2147418108, (P)+	

80		01	DO 00012	MOVL #1, (P)+	0890
53	04	AC	DO 00015	MOVL SIGNAL_ARGS, R3	0893
		26	13 00019	BEQL 2\$	
51		50	DO 0001B	MOVL P, I	0899
80	80020004	8F	DO 0001E	MOVL #-2147352572, (P)+	0901
80	04	A3	DO 00025	MOVL 4(R3), (P)+	0903
03		63	91 00029	CMPB (R3), #3	0905
		07	1F 0002C	BLSSU 1\$	
61		08	BO 0002E	MOVW #8, (I)	0908
80		A3	DO 00031	MOVL 12(R3), (P)+	0909
04		63	91 00035	1\$: CMPB (R3), #4	0912
		07	1F 00038	BLSSU 2\$	
61		OC	BO 0003A	MOVW #12, (I)	0915
80	10	A3	DO 0003D	MOVL 16(R3), (P)+	0916
		60	D4 00041	CLRL (P)	0920
50		6E	9E 00043	MOVAB ITMLST, \$SITMBLKPTR	0932
80	000A0032	8F	DO 00046	MOVL #655410, (\$SITMBLKPTR)+	
80	CC	AD	9E 0004D	MOVAB INPUT_BUFFER, (\$SITMBLKPTR)+	
		80	D4 00051	CLRL (\$SITMBLKPTR)+	
80	000B01F4	8F	DO 00053	MOVL #721396, (\$SITMBLKPTR)+	
80	24	AE	9E 0005A	MOVAB BUFFER, (\$SITMBLKPTR)+	
		80	7C 0005E	CLRQ (\$SITMBLKPTR)+	
		7E	7C 00060	CLRQ -(SP)	0935
		24	AE 9F 00062	PUSHAB IOSB	
		0C	AE 9F 00065	PUSHAB ITMLST	
7E		07	7D 00068	MOVQ #7, -(SP)	
		7E	D4 0006B	CLRL -(SP)	
00000000G	00	07	FB 0006D	CALLS #7, SYSSNDJBCW	
07		50	E9 00074	BLBC STATUS, 3\$	0936
50		1C	AE DO 00077	MOVL IOSB, STATUS	0937
0D		50	E8 0007B	BLBS STATUS, 4\$	0938
		53	DD 0007E	3\$: PUSHL R3	0939
		7E	D4 00080	CLRL -(SP)	
		0000'	CF 9F 00082	PUSHAB P.AAE	
0000V	CF	03	FB 00086	CALLS #3, STOP_BATCH_JOB	
52	24	AE	9E 00088	4\$: MOVAB BUFFER, PTR	0945
		62	D5 0008F	5\$: TSTL (PTR)	0946
		1D	13 00091	BEQL 7\$	
03	02	A2	B1 00093	CMPW 2(PTR), #3	0948
		0D	12 00097	BNEQ 6\$	
		53	DD 00099	PUSHL R3	0949
		28	AE 9F 0009B	PUSHAB BUFFER	
0000V	CF	04	A2 9F 0009E	04: PUSHAB 4(PTR)	
50		03	FB 000A1	6\$: CALLS #3, STOP_BATCH_JOB	0950
52	04 A042	62	3C 000A6	MOVZWL (PTR) R0	
		DF	9E 000A9	MOVAB 4(R0)[PTR], PTR	0946
		11	000AE	BRB 5\$	
		04	000B0	7\$: RET	0954

; Routine Size: 177 bytes, Routine Base: \$CODE\$ + 0279

```
559      0955 1 ROUTINE stop_batch_job (flags, buffer, signal_args): NOVALUE =
560      0956 1
561      0957 1 ---  

562      0958 1 This routine is called to terminate a job stream as a result
563      0959 1 of an operator request or failure of an individual job step.  

564      0960 1
565      0961 1 Inputs:  

566      0962 1
567      0963 1
568      0964 1 flags = Address of flags longword from job controller
569      0965 1 djt = Address of entire buffer from job controller
570      0966 1
571      0967 1 Outputs:  

572      0968 1
573      0969 1 There is no return - the image is exited.
574      0970 1 ---  

575      0971 1
576      0972 2 BEGIN
577      0973 2
578      0974 2 MAP
579      0975 2 flags : REF $BBLOCK,           ! Address of options longword
580      0976 2 signal_args : REF $BBLOCK;   ! Address of signal arguments or 0
581      0977 2
582      0978 2 BIND
583      0979 2 lgi = .ppd [ppd$1_lgi]: BBLOCK; ! Address the LGI area
584      0980 2
585      0981 2
586      0982 2
587      0983 2 Write the logout message.
588      0984 2
589      0985 2 logout_message();          ! Write logout message
590      0986 2
591      0987 2
592      0988 2
593      0989 2 IF .flags[dji$v_log_delete]    ! If delete of output file requested
594      0990 2 AND NOT .flags[dji$v_log_spool] ! and no print,
595      0991 2 THEN
596      0992 2     output_fab [fab$v_dlt] = true; ! then set to delete on close
597      0993 2
598      0994 2 SCMEXEC(ROUTIN = close_output); ! Close log file so we can print it
599      0995 2
600      0996 2 SCMKRNL(ROUTIN = set_uic, ARGLST = .lgi [lgi$1_origuic]); ! Reset UIC
601      0997 2
602      0998 2 IF .flags[dji$v_log_spool]       ! If output file is to be printed
603      0999 2 THEN
604      1000 3 BEGIN
605      1001 3 LOCAL
606      1002 3     wrdptr : REF VECTOR[,WORD],        ! Pointer to item list
607      1003 3     ptr : REF VECTOR,             ! Place for queue name
608      1004 3     queue_name : VECTOR[2],        ! Place for job name
609      1005 3             INITIAL(0,0),
610      1006 3     job_name : VECTOR[2],        ! Place for job name
611      1007 3             INITIAL(0,0),
612      1008 3     itmlst : VECTOR[30],         ! Item list for SNDJBC
613      1009 3     input_buffer : VECTOR[128]; ! Batch input item
614      1010 3
615      1011 3 !
```

```
616      1012 3 | We need to find the queue name, as well as the job name, before starting
617      1013 3 | to fill out the itemlist.
618      1014 3 |
619      1015 3 | wrdptr = .buffer;                                ! Point at the buffer
620      1016 3 | WHILE true DO                                     ! Go thru buffer
621          BEGIN
622          IF .wrdptr[1] EQL 0
623          THEN EXITLOOP;
624          IF .wrdptr[1] EQL djis$queue_name
625          THEN
626              BEGIN
627                  queue_name[0] = .wrdptr[0];
628                  queue_name[1] = wrdptr[2];
629                  IF .job_name[1] NEQ 0
630                  THEN EXITLOOP;
631                  END
632          ELSE IF .wrdptr[1] EQL djis$job_name
633          THEN
634              BEGIN
635                  job_name[0] = .wrdptr[0];
636                  job_name[1] = wrdptr[2];
637                  IF .queue_name[1] NEQ 0
638                  THEN EXITLOOP;
639                  END;
640          wrdptr = wrdptr[2] + .wrdptr[0];
641          END;
642
643      1038 3 | If no queue name was found, then use SYSSPRINT.
644
645      1040 3 | IF .queue_name[0] EQL 0
646          THEN
647              BEGIN
648                  queue_name[0] = %CHARCOUNT('SYSSPRINT');
649                  queue_name[1] = UPLIT BYTE('SYSSPRINT');
650              END;
651
652      1047 3 | Now to fill in the itemlist.
653
654      1049 3 | ptr = itmlst;                                ! Start at beginning of item list
655
656      1052 3 | The queue name is either in the JBC buffer, or else we should use
657          SYSSPRINT.
658
659      1054 3 |
660          ptr[0] = sjc$queue^16 OR .queue_name[0];
661          ptr[1] = .queue_name[1];
662          ptr[2] = 0;
663          ptr = ptr[3];
664
665      1060 3 | Also put in the job name.
666
667      1062 3 | ptr[0] = sjc$job_name^16 OR .job_name[0];
668          ptr[1] = .job_name[1];
669          ptr[2] = 0;
670          ptr = ptr[3];
671
672      1067 3 | Add /NOTIFY if requested.
```

```
673      1069  3  IF .flags[dji$v_notify]
674      1070  3  THEN
675      1071  4  BEGIN
676      1072  4  ptr[0] = sjc$_notify^16;
677      1073  4  ptr[1] = ptr[2] = 0;
678      1074  4  ptr = ptr[3];
679      1075  3  END;
680      1076  3  |
681      1077  3  | If the log file exists, add its information.
682      1078  3  |
683      1079  3  | IF CH$RCHAR(ppd[ppd$t_outdvi]) NEQ 0
684      1080  3  THEN
685      1081  4  BEGIN
686      1082  4  |
687      1083  4  File ID
688      1084  4  |
689      1085  4  ptr[0] = sjc$file_identification^16 OR ppd$c_dvifid;
690      1086  4  ptr[1] = ppd[ppd$t_outdvi];
691      1087  4  ptr[2] = 0;
692      1088  4  ptr = ptr[3];
693      1089  4  |
694      1090  4  Add /DELETE if requested.
695      1091  4  |
696      1092  4  IF .flags[dji$v_log_delete]
697      1093  4  THEN
698      1094  5  BEGIN
699      1095  5  ptr[0] = sjc$ delete_file^16;
700      1096  5  ptr[1] = ptr[2] = 0;
701      1097  5  ptr = ptr[3];
702      1098  4  END;
703      1099  4  |
704      1100  4  | The log file always gets a header page.
705      1101  4  |
706      1102  4  ptr[0] = sjc$page_header^16;
707      1103  4  ptr[1] = ptr[2] = 0;
708      1104  4  ptr = ptr[3];
709      1105  4  END
710      1106  4  |
711      1107  4  | If no log file exists, attempt to print messages.
712      1108  4  |
713      1109  3  ELSE IF .signal_args NEQA 0
714      1110  3  THEN
715      1111  4  BEGIN
716      1112  4  LOCAL
717      1113  4  i : REF $BBBLOCK,    ! Pointer to item header
718      1114  4  p : REF $BBBLOCK;    ! Pointer to input buffer
719      1115  4
720      1116  4  p = i = input_buffer;
721      1117  4  p[dji$w_item_code] = dji$k_condition_vector;
722      1118  4  p[dji$w_item_size] = 4;
723      1119  4  p = .p + dji$w_item_header;
724      1120  4  .p = .signal_args[4,0,32,0];           ! Primary condition
725      1121  4  p = .p + 4;
726      1122  4  IF .signal_args[0,0,8,0] GEQU 3
727      1123  4  THEN
728      1124  5  BEGIN
729      1125  5  i[dji$w_item_size] = 8;
```

730 1126 5 .p = .signal\_args[12,0,32,0]; ! STS, if present  
731 1127 5 p = .p + 4;  
732 1128 4 END;  
733 1129 4 IF .signal\_args[0,0,8,0] GEQU 4  
734 1130 4 THEN BEGIN  
735 1131 5 i[dji\$w\_item\_size] = 12;  
736 1132 5 .p = .signal\_args[16,0,32,0]; ! STV, if present  
737 1133 5 p = .p + 4;  
738 1134 5 END;  
739 1135 4  
740 1136 4  
741 1137 4 IF .output\_nam[nam\$b\_rsl] NEQ 0  
742 1138 4 THEN BEGIN  
743 1139 5 p[dji\$w\_item\_code] = dji\$k\_file\_specification;  
744 1140 5 p[dji\$w\_item\_size] = .output\_nam[nam\$b\_rsl];  
745 1141 5 p = .p + dji\$ss\_item\_header;  
746 1142 5 p = CHSMOVE(  
747 1143 5 .output\_nam[nam\$b\_rsl],  
748 1144 5 .output\_nam[nam\$l\_rsa],  
749 1145 5 .p);  
750 1146 5  
751 1147 5 END  
752 1148 4 ELSE IF .output\_nam[nam\$b\_esl] NEQ 0  
753 1149 4 THEN BEGIN  
754 1150 5 p[dji\$w\_item\_code] = dji\$k\_file\_specification;  
755 1151 5 p[dji\$w\_item\_size] = .output\_nam[nam\$b\_esl];  
756 1152 5 p = .p + dji\$ss\_item\_header;  
757 1153 5 p = CHSMOVE(  
758 1154 5 .output\_nam[nam\$b\_esl],  
759 1155 5 .output\_nam[nam\$l\_esl],  
760 1156 5 .p);  
761 1157 5  
762 1158 5 END  
763 1159 4 ELSE BEGIN  
764 1160 5 p[dji\$w\_item\_code] = dji\$k\_file\_specification;  
765 1161 5 p[dji\$w\_item\_size] = .output\_fab[fab\$b\_fns];  
766 1162 5 p = .p + dji\$ss\_item\_header;  
767 1163 5 p = CHSMOVE(  
768 1164 5 .output\_fab[fab\$b\_fns],  
769 1165 5 .output\_fab[fab\$l\_fna],  
770 1166 5 .p);  
771 1167 5  
772 1168 4 END;  
773 1169 4  
774 1170 4 .p = 0; ! Zero terminate list  
775 1171 4 p = .p + 4;  
776 1172 4  
777 1173 4 ptr[0] = sjc\$batch\_input^16 OR (.p - input\_buffer);  
778 1174 4 ptr[1] = input\_buffer;  
779 1175 4 ptr[2] = 0;  
780 1176 4 ptr = ptr[3];  
781 1177 3 END;  
782 1178 3  
783 1179 3 | Done. Put in a zero longowrd  
784 1180 3  
785 1181 3 ptr[0] = 0;  
786 1182 3

```
: 787      P 1183 3      $SNDJBCW(FUNC = sjc$_enter_file,
: 788          1184 3          ITMLST = itmlst);
: 789          1185 2          END;
: 790          1186 2
: 791          1187 2      SCMEXEC(ROUTIN = exit_process);           ! Terminate process
: 792          1188 2
: 793          1189 1      END;
```

.PSECT SPLIT\$,NOWRT,NOEXE,2

54 4E 49 52 50 24 53 59 53 00024 P.AAF: .ASCII \SYSSPRINT\

.EXTRN SYSSCMEXEC, SYSSCMKRNL

.PSECT SCODE\$,NOWRT,2

07FC 00000 STOP\_BATCH\_JOB:

	5A	00000000G	00	9E	00002	.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10		0955	
	59	00000000G	00	9E	00009	MOVAB	SYSSCMEXEC, R10			
	58	00000000G	00	9E	00010	MOVAB	PPD+72, R9			
	57	00000000G	00	9E	00017	MOVAB	OUTPUT_FAB+4, R8			
	5E	FD78	CE	9E	0001E	MOVAB	OUTPUT_NAM+3, R7			
	52	CC	A9	00	00023	MOVL	-648(SP), SP			
	00		00	FB	00027	CALLS	PPD+20, R2		0979	
0A	04	BC	01	E1	0002E	BBC	#0, LOGOUT_MESSAGE		0985	
05	04	BC	03	E0	00033	BBS	#1, @FLAGS, 1\$		0989	
	01	A8	80	8F	00038	BISB2	#3, @FLAGS, 1\$		0990	
			7E	D4	0003D	CLRL	#128, OUTPUT_FAB+5		0992	
			00000000G	00	9F	PUSHAB	-(SP)		0994	
	6A		02	FB	00045	CALLS	CLOSE_OUTPUT			
			62	DD	00048	PUSHL	#2, SYSSCMEXEC			
			00000000G	00	9F	PUSHAB	(R2)		0996	
03	00		02	FB	00050	CALLS	SET_UIC			
	04	BC	03	E0	00057	BBS	#2, SYSSCMKRNL			
			0154	31	0005C	BRW	#3, @FLAGS, 2\$		0998	
			F8	AD	7C	0005F	2\$: CLRQ	QUEUE_NAME	1000	
			F0	AD	7C	00062	CLRQ	JOB_NAME		
	50	08	AC	DO	00065	MOVL	BUFFER, WRDPTR		1015	
	51	02	A0	3C	00069	MOVZWL	2(WRDPTR), R1		1018	
			30	13	0006D	BEQL	7\$			
	05		51	B1	0006F	CMPW	R1, #5		1020	
			0E	12	00072	BNEQ	4\$			
F8	AD		60	3C	00074	MOVZWL	(WRDPTR), QUEUE_NAME		1023	
FC	AD	04	A0	9E	00078	MOVAB	4(R0), QUEUE_NAME+4		1024	
			F4	AD	D5	0007D	TSTL	JOB_NAME+4		
			11	11	00080	BRB	5\$		1025	
	04		51	B1	00082	4\$: CMPW	R1, #4		1028	
			0E	12	00085	BNEQ	6\$			
F0	AD		60	3C	00087	MOVZWL	(WRDPTR), JOB_NAME		1031	
F4	AD	04	A0	9E	00088	MOVAB	4(R0), JOB_NAME+4		1032	
			FC	AD	D5	00090	TSTL	QUEUE_NAME+4		
			0A	12	00093	4\$: BNEQ	7\$		1033	
	51		60	3C	00095	MOVZWL	(WRDPTR), R1			
	50		04	A140	9E	00098	MOVAB	4(R1)[WRDPTR], WRDPTR		1036



	83	50	B0 00175	MOVW	R0, (P)+		
	53	02	C0 00178	ADDL2	#2, P		1163
63	51	28	A8 D0 0017B	MOVL	OUTPUT FAB+44, R1		1166
	61		50 28 0017F	17\$:	MOV C3 R0, (RT), (P)		1167
			83 D4 00183	CLRL	(P)+		1170
	50		6E 9E 00185	MOVAB	INPUT BUFFER, R0		1173
66	53	000A0000	50 C2 00188	SUBL2	R0, R3		
	04	A6	8F C9 0018B	BISL3	#655360, R3, (PTR)		
			6E 9E 00193	MOVAB	INPUT BUFFER, 4(PTR)		1174
		08	A6 D4 00197	CLRL	8(PTR)		1175
	56		0C C0 0019A	18\$:	ADDL2 #12, PTR		1176
			66 D4 0019D	19\$:	CLRL (PTR)		1181
			7E 7C 0019F	CLRQ	-(SP)		1184
			7E D4 001A1	CLRL	-(SP)		
	7E	FF78	CD 9F 001A3	PUSHAB	ITMLST		
			13 7D 001A7	MOVQ	#19, -(SP)		
00000000G	00		7E D4 001AA	CLRL	-(SP)		
			07 FB 001AC	CALLS	#7, SYSSNDJBCW		
			7E D4 001B3	CLRL	-(SP)		1187
		00000000G	00	20\$:	PUSHAB	EXIT PROCESS	
	6A		02 FB 001B5	CALLS	#2, SYSSCMEXEC		
			04 001BE	RET			1189

; Routine Size: 447 bytes, Routine Base: \$CODE\$ + 032A



```
; 852      1247 3   BEGIN                                ! Use the access control string
853      1248 3   ptr = .sys$output [1];                ! Get address of SYSS$OUTPUT string
854      1249 3
855      1250 3   username [0] = CH$RCHAR_A(ptr);        ! Get length of username
856      1251 3   username [1] = .ptr;                  ! and address of username
857      1252 3
858      1253 3   ptr = .ptr + .username [0];          ! Skip to password
859      1254 3   password [0] = CH$RCHAR_A(ptr);    ! Get length of password
860      1255 3   password [1] = .ptr;                  ! and address of password
861      1256 3
862      1257 3   ptr = .ptr + .password [0];          ! Skip to account
863      1258 3   account [0] = CH$RCHAR_A(ptr);     ! Get length of account
864      1259 3   account [1] = .ptr;                  ! and address of account
865      1260 3
866      1261 3   IF NOT .pcb_sts [$BITPOSITION(pcb$v_login)]
867      1262 3   THEN validate_uafrec(username,         ! Lookup in UAF file
868      1263 3           password,                  ! and validate the password
869      1264 3           UPLIT (0,0));           ! with a null secondary password
870      1265 2   END;
871      1266 2
872      1267 2   Create SYSS$NET logical name with contents of NCB
873      1268 2
874      1269 2
875      1270 2
876      1271 2   create_logical(%ASCID 'SYSS$NET',       ! Define SYSS$NET
877      1272 2           sys$error,
878      1273 2           psl$c_exec);
879      1274 2
880      1275 2
881      1276 2   If the input file has the file type .EXE, then rather than activating
882      1277 2   the CLI and creating a log file, activate the program from a small
883      1278 2   code segment in P1 space. This is done to optimize network job
884      1279 2   activation time.
885      1280 2
886      1281 2
887      1282 2   IF NOT CH$FAIL(CH$FIND_SUB(.sys$input [0], .sys$input [1],
888      1283 2           4, UPLIT BYTE('.EXE')));
889      1284 2   THEN
890      1285 3   BEGIN
891      1286 3   $CMEXEC(ROUTIN = map_imgact);          ! Map the imgact code segment into P1
892      1287 3   input_fab [fab$l_fna] = UPLIT BYTE('_NL:'); ! Set input to NL:
893      1288 3   input_fab [fab$b_fns] = 4;             ! Set output to NL:
894      1289 3   output_fab [fab$l_fna] = .input_fab [fab$l_fna];
895      1290 3   output_fab [fab$b_fns] = .input_fab [fab$b_fns];
896      1291 3   RETURN;                            ! and return
897      1292 2   END;
898      1293 2
899      1294 2   Set default filespec for input file
900      1295 2
901      1296 2
902      1297 2
903      1298 2   input_fab [fab$l_dna] = UPLIT BYTE('CONNECT.COM');
904      1299 2   input_fab [fab$b_dns] = 11;
905      1300 2
906      1301 2
907      1302 2   Construct filespec of output log file for network job
908      1303 2
```

```

909 1304 2
910 1305 2 ptr = (sys$output [1] = sys$input [1]);
911 1306 2 IF (len = (sys$output [0] = .sys$input [0])) NEQ 0
912 1307 2 THEN
913 1308 3 BEGIN
914 1309 3 DO
915 1310 4 BEGIN
916 1311 4 LOCAL
917 1312 4 chr: BYTE;
918 1313 4 chr = CH$RCHAR_A(ptr);
919 1314 4 IF .chr EQL ':'
920 1315 4 OR .chr EQL ';'
921 1316 4 OR .chr EQL '>'
922 1317 4 THEN
923 1318 5 BEGIN
924 1319 5 sys$output [1] = .ptr;
925 1320 5 sys$output [0] = .len - 1;
926 1321 4 END;
927 1322 4 len = .len - 1;
928 1323 4 END
929 1324 3 WHILE .len GTR 0;
930 1325 3 IF NOT CH$FAIL(ptr = CH$FIND_CH(.sys$output [0], .sys$output [1], '.'))
931 1326 3 THEN
932 1327 3 sys$output [0] = CH$DIFF(.ptr, .sys$output [1]);
933 1328 2 END;
934 1329 2
935 1330 2 output_fab [fab$b_fns] = .sys$output [0]; ! Set as primary output filespec
936 1331 2 output_fab [fab$l_fna] = .sys$output [1];
937 1332 2
938 1333 1 END;

```

## .PSECT \$PLIT\$,NOWRT,NOEXE,2

00 54 45 4E 24 53 59 53 010E0007	00000000 00000000 00030 P.AAG:	.BLKB 3
	00038 P.AAI:	.LONG 0, 0
	00040 P.AAH:	.ASCII \SYSSNET\<0>
	00044 P.AAJ:	.LONG 17694727
45 58 45 2E 3A 4C 4E 5F	00048 P.AAK:	.ADDRESS P.AAI
4D 4F 43 2E 54 43 45 4E	00050 P.AAL:	.ASCII \.EXE\
		.ASCII \NL:\
		.ASCII \CONNECT.COM\

## .PSECT \$CODE\$,NOWRT,2

5A 0000' 59 0000000G 58 0000000G 57 0000000G 56 0000000G 55 0000000G 5E	07FC 00000 CF 9E 00002 00 9E 00007 00 9E 0000E 00 9E 00015 00 9E 0001C 00 9E 00023 18 C2 0002A	MOVAB P.AAG, R10 MOVAB SYS\$ERROR, R9 MOVAB OUTPUT FAB+44, R8 MOVAB SYSSINPUT+4, R7 MOVAB INPUT FAB+44, R6 MOVAB SYSSOUTPUT+4, R5 SUBL2 #24, SP
---	--	---

.ENTRY INIT\_NETWORK, Save R2,R3,R4,R5,R6,R7,R8,R9,-: 1190  
R10

	00000000G	00	01	D0 0002D	MOVL	#1, JOB_TYPE	1218
60		50	04	A9 D0 00034	MOVL	SYSSERROR+4, R0	1224
		69		2F 3A 00038	LOCC	#47, SYSSERROR, (R0)	
				02 12 0003C	BNEQ	1S	
			54	51 D4 0003E	CLRL	R1	
				51 D0 00040	1\$: MOVL	R1, PTR	
			7E	0B 13 00043	BEQL	2S	
	00000000G	00	01	A4 3C 00045	MOVZWL	1(PTR), -(SP)	1226
		50		01 FB 00049	CALLS	#1, SET_NODE_NAME	
			54	65 D0 00050	2\$: MOVL	SYSSOUTPUT+4, R0	1236
		FC	A5	60 D0 00053	MOVL	(R0), PTR	
			65	02 C2 00056	SUBL2	#2, SYSSOUTPUT	1238
			08	02 C0 0005A	ADDL2	#2, SYSSOUTPUT+4	1239
	0000V	CF		54 E9 0005D	BLBC	PTR, 3S	1243
		39		00 FB 00060	CALLS	#0, GET_PROXY	
			54	50 E8 00065	BLBS	R0, 4S	
		10	AE	65 D0 00068	3\$: MOVL	SYSSOUTPUT+4, PTR	1248
		14	AE	84 9A 0006B	MOVZBL	(PTR)+, USERNAME	1250
			54	54 D0 0006F	MOVL	PTR, USERNAME+4	1251
		08	AE	10 AE 00073	ADDL2	USERNAME, PTR	1253
		0C	AE	84 9A 00077	MOVZBL	(PTR)+, PASSWORD	1254
			54	54 D0 0007B	MOVL	PTR, PASSWORD+4	1255
			6E	08 AE 0007F	ADDL2	PASSWORD, PTR	1257
		04	AE	84 9A 00083	MOVZBL	(PTR)+, ACCOUNT	1258
	OF 00000000G	00		54 D0 00086	MOVL	PTR, ACCOUNT+4	1259
				04 E0 0008A	BBS	#4, PCB_STS+2, 4S	1261
				5A DD 00092	PUSHL	R10	1264
			0C	AE 9F 00094	PUSHAB	PASSWORD	1262
	00000000G	00		18 AE 9F 00097	PUSHAB	USERNAME	
				03 FB 0009A	CALLS	#3, VALIDATE_UAFREC	
				01 DD 000A1	PUSHL	#1	1271
			10	59 DD 000A3	PUSHL	R9	
	00000000G	00		AA 9F 000A5	PUSHAB	P.AAH	
		50		03 FB 000A8	CALLS	#3, CREATE_LOGICAL	1282
60	FC	A7	18	67 D0 000AF	MOVL	SYSSINPUT+4, R0	1283
				04 39 000B2	MATCHC	#4, P.AAJ, SYSSINPUT, (R0)	
			53	03 13 000B9	BEQL	5S	
			53	04 D0 000BB	MOVL	#4, R3	
				04 C2 000BE	5\$: SUBL2	#4, R3	
				20 13 000C1	BEQL	6S	
				7E D4 000C3	CLRL	-(SP)	1286
	00000000G	00		00 9F 000C5	PUSHAB	MAP_IMGACT	
				02 FB 000CB	CALLS	#2, SYSSCMEXEC	
		66	1C	AA 9E 000D2	MOVAB	P.AAK, INPUT_FAB+44	1287
		08	A6	04 90 000D6	MOVB	#4, INPUT_FAB+52	1288
			68	66 D0 000DA	MOVL	INPUT_FAB+44, OUTPUT_FAB+44	1289
		08	A8	08 A6 90 000DD	MOVB	INPUT_FAB+52, OUTPUT_FAB+52	1290
				04 000E2	RET		1285
		04	A6	20 AA 9E 000E3	6\$: MOVAB	P.AAL, INPUT_FAB+48	1298
		09	A6	08 90 000E8	MOVB	#11, INPUT_FAB+53	1299
			50	67 D0 000EC	MOVL	SYSSINPUT+4, R0	1305
			65	50 D0 000EF	MOVL	RO, SYSSOUTPUT+4	
			54	50 D0 000F2	MOVL	RO, PTR	
		FC	50	A7 D0 000F5	MOVL	SYSSINPUT, R0	1306
				50 D0 000F9	MOVL	RO, SYSSOUTPUT	
			51	34 13 000FD	BEQL	11\$	
				84 90 000FF	MOVB	(PTR)+, CHR	1313
				7\$: MOVL			

DETACHED  
V04-000

H 13  
16-Sep-1984 01:59:01 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 12:41:05 [LOGIN.SRC]DETACHED.B32;1

Page 29  
(6)

			3A	51 91 00102	CMPB	CHR, #58		1314
			5D 8F	0B 13 00105	BEQL	8\$		1315
				51 91 00107	CMPB	CHR, #93		1316
				05 13 0010B	BEQL	8\$		1317
			3E	51 91 0010D	CMPB	CHR, #62		1318
				08 12 00110	BNEQ	9\$		1319
			65	54 D0 00112	8\$: MOVL	PTR, SYSS\$OUTPUT+4		1320
			FC A5	A0 9E 00115	MOVAB	-1(R0), SYSS\$OUTPUT		1321
			E2	50 F5 0011A	S0BGTR	LEN 7\$		1322
			52	65 D0 0011D	MOVL	SYSS\$OUTPUT+4, R2		1323
62			FC A5	2E 3A 00120	LOCC	#46, SYSS\$OUTPUT, (R2)		1324
				02 12 00125	BNEQ	10\$		1325
				51 D4 00127	CLRL	R1		1326
			54	51 D0 00129	10\$: MOVL	R1, PTR		1327
			FC A5	05 13 0012C	BEQL	11\$		1328
			08 A8	52 C3 0012E	SUBL3	R2, PTR, SYSS\$OUTPUT		1329
			68	A5 90 00133	MOVBL	SYSS\$OUTPUT, OUTPUT_FAB+52		1330
				65 D0 00138	MOVL	SYSS\$OUTPUT+4, OUTPUT_FAB+44		1331
				04 0013B	RET			1332

; Routine Size: 316 bytes. Routine Base: \$CODE\$ + 04E9

```
940      1334 1 ROUTINE get_proxy =
941      1335 1 ---
942      1336 1
943      1337 1     Get the local username that is mapped to the remote username.
944      1338 1     The remote username is contained in the NCB string described
945      1339 1     by NCB_DESC, the NCB descriptor.
946      1340 1
947      1341 1 Inputs:
948      1342 1
949      1343 1     sys$error = address of NCB descriptor
950      1344 1
951      1345 1 Outputs:
952      1346 1
953      1347 1     uaf_record = Address of UAF record, if any
954      1348 1
955      1349 1 Status returns:
956      1350 1
957      1351 1     TRUE => Proxy username found
958      1352 1     FALSE => No proxy username found
959      1353 1
960      1354 1 ---
961      1355 1
962      1356 2 BEGIN
963      1357 2
964      1358 2 LOCAL
965      1359 2
966      1360 2     status,
967      1361 2     netfab : BBLOCK[fab$C_bln],           ! Fab for NETUAF.DAT
968      1362 2     netrab : BBLOCK[rab$C_bln],           ! Rab for NETUAF.DAT
969      1363 2     net_record : BBLOCK[naf$C_length],       Place to put a record
970      1364 2     user_desc : VECTOR[2],                  Username descriptor
971      1365 2     ptr,                                Temp pointer
972      1366 2     node_len,                            Length of node
973      1367 2     node_ptr,                            Pointer to beginning of node
974      1368 2     user_len,                            Length of username
975      1369 2     user_ptr;                           ! Pointer to beginning of username
976      1370 2
977      1371 2 Initialize the FAB and RAB
978      1372 2
979      P 1373 2 $FAB_INIT ( FAB = netfab,
980      P 1374 2     FAC = get,                          ! Want to get records
981      P 1375 2     FNM = 'NETUAF',                     Name is NETUAF
982      P 1376 2     DNM = 'SYSSYSYTEM:.DAT',          Look in SYSSYSTEM
983      P 1377 2     SHR = (get,put,upd,del));        Do shared access
984      1378 2
985      1379 2 Disable group and process logical name translation. This must be
986      1380 2 done manually, since $FAB_INIT doesn't know about the disable mask.
987      1381 2
988      1382 2 netfab[fab$V_lnm_mode] = psl$C_exec;
989      1383 2
990      P 1384 2 $RAB_INIT ( RAB = netrab,
991      P 1385 2     ROP = rrl,                         ! Don't lock records
992      P 1386 2     RAC = key,                        Access is keyed
993      P 1387 2     KRF = 0,                          Use primary key
994      P 1388 2     KBF = net_record[naf$t_remname],   Lookup key overlays net record
995      P 1389 2     KSZ = naf$S_remname,            and it's this long
996      P 1390 2     UBF = net_record,                Fetch record and put it here
```

```
997 P 1391 2      USZ = naf$c_length,           ! Size of record
998 1392 2      FAB = netfab;
999 1393 2
1000 1394 2
1001 1395 2      | Open NETUAF
1002 1396 2
1003 1397 2      set sysprv ();
1004 1398 2      IF NOT (status = $OPEN (FAB = netfab))
1005 1399 2      THEN
1006 1400 3      BEGIN
1007 1401 3      clear_sysprv ();
1008 1402 3      IF .status EQL rms$_fnf
1009 1403 3      THEN RETURN false;
1010 1404 3      SIGNAL_STOP (lgis$netuafacc, 0, .status, .netfab[fab$l_stv]);
1011 1405 2
1012 1406 2
1013 1407 3      IF NOT (status = $CONNECT (RAB = netrab))
1014 1408 2      THEN
1015 1409 3      BEGIN
1016 1410 3      IF .status EQL rms$_crmp
1017 1411 3      THEN
1018 1412 4      BEGIN
1019 1413 4      netfab[fab$w_gbc] = 0;
1020 1414 4      status = $CONNECT (RAB = netrab);
1021 1415 3
1022 1416 3      IF NOT .status
1023 1417 3      THEN
1024 1418 4      BEGIN
1025 1419 4      clear_sysprv ();
1026 1420 4      $CLOSE (FAB = netfab);
1027 1421 4      SIGNAL_STOP (lgis$netuafacc, 0, .status, .netrab[rab$l_stv]);
1028 1422 3
1029 1423 2
1030 1424 2
1031 1425 2      clear_sysprv ();
1032 1426 2
1033 1427 2
1034 1428 2      | Get the remote node and remote username from the Network Control Block.
1035 1429 2      The NCB is an ASCII string that looks like this:
1036 1430 2
1037 1431 2      NODE::'OBJECT=USERNAME/<more stuff>'
1038 1432 2
1039 1433 2      Where NODE and USERNAME are the two fields to extract and use as a key,
1040 1434 2      to locate the record in NETUAF.DAT which contains the local username to
1041 1435 2      map to.
1042 1436 2
1043 1437 2
1044 1438 2
1045 1439 2      | First, get the node.
1046 1440 2
1047 1441 2
1048 1442 2      ptr = CHSFIND_SUB ( .sys$error[0],           ! Search the NCB string
1049 1443 2          sys$error[1]
1050 1444 2          2, UPLIT (':::'));           ! Looking for :::
1051 1445 2
1052 1446 2
1053 1447 2      | If the node wasn't there, then return FALSE and process with no proxy
```

```
1054      1448 2 !
1055      1449 2
1056      1450 2 IF   .ptr EQL 0 OR
1057      1451 2     .ptr EQL .sys$Error[1]
1058      1452 2 THEN RETURN false;
1059      1453 2
1060      1454 2 node_len = .ptr - .sys$Error[1];           ! Store node length
1061      1455 2 node_ptr = .sys$Error[1];                 ! And starting address
1062      1456 2
1063      1457 2
1064      1458 2 | Get the username. This is done by looking for the "=:", then the
1065      1459 2     "/", and interpreting whatever is between the two characters as the
1066      1460 2     username.
1067      1461 2
1068      1462 2
1069      1463 2 ptr = CH$IND_CH ( .sys$Error[0],           ! Search the NCB string
1070      1464 2           ;sys$Error[1],
1071      1465 2           ;:= );
1072      1466 2
1073      1467 2 IF .ptr EQL 0                         ! If no such character found
1074      1468 2 THEN RETURN false;                   ! return a value of FALSE
1075      1469 2
1076      1470 2 user_ptr = .ptr + 1;                  ! Compute beginning of username
1077      1471 2
1078      1472 2 ptr = CH$IND_CH ( .sys$Error[0],           ! Search the NCB string
1079      1473 2           ;sys$Error[1],
1080      1474 2           ;/ );
1081      1475 2
1082      1476 2
1083      1477 2 | If no slash, or a null username, return FALSE
1084      1478 2
1085      1479 2
1086      1480 2 IF   .ptr EQL 0 OR
1087      1481 2     .ptr EQL .user_ptr
1088      1482 2 THEN RETURN false;
1089      1483 2
1090      1484 2
1091      1485 2 | Otherwise, compute the username length
1092      1486 2
1093      1487 2
1094      1488 2 user_len = .ptr - .user_ptr;
1095      1489 2
1096      1490 2
1097      1491 2 | Copy the node and username to NET_KEY, the key buffer that RMS will
1098      1492 2     use to look for the specified record.
1099      1493 2
1100      1494 2 CHSCOPY ( ;node_len, .node_ptr,          ! Copy the nodename
1101      1495 2           naf$node, net_record[naf$node]);  ! Padded with blanks
1102      1496 2
1103      1497 2 CHSCOPY ( ;user_len, .user_ptr,          ! Copy the username
1104      1498 2           naf$remuser, net_record[naf$remuser]);  ! Padded with blanks
1105      1499 2
1106      1500 2
1107      1501 2
1108      1502 2
1109      1503 2 | Now perform a $GET, so see if there is a record in NETUAF that
1110      1504 2     exactly matches the node and username specified. If no exact match
```

```

1111 1505 2 | is found, wildcarding is applied in the following order:
1112 1506 2 |     Wildcard node, specific user
1113 1507 2 |     Specific node, wildcard user
1114 1508 2 |     Wildcard node, wildcard user
1115 1509 2 |
1116 1510 2 |
1117 1511 2 | If a match is found, then it is used and no further checking is done.
1118 1512 2 |
1119 1513 3 IF NOT ($GET (RAB = netrab))
1120 1514 2 THEN
1121 1515 3 BEGIN
1122 1516 3 CH$COPY ( 1,,UPLIT ('*'),                                ! Put in wildcard node
1123 1517 3
1124 1518 3     naf$`s_node, net_record[naf$`t_node]);
1125 1519 4 IF NOT ($GET (RAB = netrab))
1126 1520 3 THEN
1127 1521 4 BEGIN
1128 1522 4     CH$COPY ( .node_len, .node_ptr,                      ! Specific node,
1129 1523 4             naf$`s_node, net_record[naf$`t_node]);
1130 1524 4     CH$COPY ( 1,,UP[IT ('*'),                           ! Wildcard user
1131 1525 4             naf$`s_remuser, net_record[naf$`t_remuser]);
1132 1526 4
1133 1527 4 IF NOT ($GET (RAB = netrab))
1134 1528 5 THEN
1135 1529 4 BEGIN
1136 1530 5     CH$COPY ( 1,,UPLIT ('*'),                                ! Wildcard node and user
1137 1531 5
1138 1532 5     naf$`s_node, net_record[naf$`t_node]);
1139 1533 5 IF NOT ($GET (RAB = netrab))
1140 1534 6 THEN
1141 1535 5 BEGIN
1142 1536 6     $CLOSE(FAB = netfab);
1143 1537 6     RETURN false;                                         ! If no matches, return false
1144 1538 6
1145 1539 5 END;
1146 1540 4
1147 1541 3 END;
1148 1542 2 END;
1149 1543 2
1150 1544 2 | Close NETUAF
1151 1545 2 !
1152 1546 2
1153 1547 2 $CLOSE (FAB = netfab);
1154 1548 2
1155 1549 2 | If we get here, then a match was found. Check to see if the local username
1156 1550 2 | is actually a "*", in which case copy the remote username to the local
1157 1551 2 | username.
1158 1552 2 !
1159 1553 2
1160 1554 2 IF .VECTOR [net_record[naf$`localuser], 0; ,BYTE] EQL '*'
1161 1555 2 THEN CH$COPY ( .user_len, .user_ptr,
1162 1556 2             naf$`s_localuser, net_record[naf$`localuser]);
1163 1557 2
1164 1558 2
1165 1559 2
1166 1560 2 | Now fill in the user descriptor with the local username, and call
1167 1561 2 | GET_UAFREC, to get the UAF record without checking for password.

```

```
1168      1562 2 !
1169      1563 2
1170      1564 2 user_desc[0] = naf$$_localuser;
1171      1565 2 user_desc[1] = net_record[naf$$_localuser];
1172      1566 2
1173      1567 2 get_uafrec (user_desc);
1174      1568 2
1175      1569 2 !
1176      1570 2 | Done. If a UAF record was found, return TRUE. Otherwise return FALSE.
1177      1571 2 |
1178      1572 2
1179      1573 2 RETURN (.uaf_record NEQ 0);
1180      1574 1 END;
```

OFFC 00000 GET_PROXY:									
0050	8F	00	5B	00000000G	00	9E	00002	.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11
			5A	00000000G	00	9E	00009	MOVAB	CLEAR SYSPRV, R11
			5E	FF00	CE	9E	00010	MOVAB	SYSSGET, R10
			6E	B0	00	2C	00015	MOVCS	-256(SP), SP
			B0	AD	5003	8F	B0 0001E		#0, (SP), #0, #80, SRMS_PTR
			C6	AD	0F02	8F	B0 00024	MOVW	#20483, SRMS PTR
			CF	AD	0000'	02	90 0002A	MOVW	#3842, SRMS PTR+22
			DC	AD	0000'	CF	9E 0002E	MOVB	#2, SRMS PTR+31
			E0	AD	0F06	CF	9E 00034	MOVAB	P.AAM, SRMS PTR+44
			E4	AD	00	8F	B0 0003A	MOVAB	P.AAN, SRMS PTR+48
						01	F0 00040	MOVW	#3846, SRMS PTR+52
0044	AD	02				00	2C 00046	INSV	#1, #0, #2, NETFAB+74
	BF	00				6E		MOVCS	#0, (SP), #0, #68, SRMS_PTR
			6C	AE	4401	6C	AE 0004D		
			70	AE		8F	B0 0004F	MOVW	#17409, SRMS PTR
			8A	AD		08	D0 00055	MOVL	#8, SRMS PTR+4
			8C	AD		01	90 00059	MOVB	#1, SRMS PTR+30
			90	AD	64	8F	9B 0005D	MOVZBW	#100, SRMS PTR+32
			9C	AD	08	AE	9E 00062	MOVAB	NET_RECORD, SRMS PTR+36
			A0	AD	08	AE	9E 00067	MOVAB	NET_RECORD, SRMS PTR+48
			A8	AD	40	8F	90 0006C	MOVB	#64, SRMS PTR+52
			00000000G	00	B0	AD	9E 00071	MOVAB	NETFAB, SRMS PTR+60
					00	FB	00076	CALLS	#0, SET_SYSPRV
			00000000G	00	B0	AD	9F 0007D	PUSHAB	NETFAB
					01	FB	00080	CALLS	#1, SYSSOPEN



; Routine Size: 490 bytes, Routine Base: \$CODE\$ + 0625

DETACHED  
V04-000

C 14  
16-Sep-1984 01:59:01 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 12:41:05 [LOGIN.SRC]DETACHED.B32;1

Page 37  
(8)

: 1182 1575 1 END  
: 1183 1576 0 ELUDOM

.EXTRN LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	299	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$SPLITS	128	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODES	2063	NOVEC, NOWRT, RD, EXE, NO'SHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	----- Symbols -----			Pages Mapped	Processing Time
	Total	Loaded	Percent		
\$_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	163	0	1000	00:01.4

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:DETACHED/OBJ=OBJ\$:DETACHED MSRC\$:DETACHED/UPDATE=(ENHS:DETACHED)

: Size: 2063 code + 427 data bytes  
: Run Time: 00:31.3  
: Elapsed Time: 02:05.2  
: Lines/CPU Min: 3020  
: Lexemes/CPU-Min: 38117  
: Memory Used: 286 pages  
: Compilation Complete

0221 AH-BT13A-SE  
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION  
CONFIDENTIAL AND PROPRIETARY

